

POLIOMYELITIS SURVEILLANCE REPORT

FOR ADMINISTRATIVE USE

REPORT NO. 238

SEPTEMBER 15, 1961

Table of Contents

SUMMARY

- 1. CURRENT POLIOMYELITIS MORBIDITY TRENDS
- REPORTS
- 3. 1961 POLIOMYELITIS CASES REPORTED TO PSU
- 4. ROUTINE POLIOMYELITIS SURVEILLANCE 1961
- 5. ENTEROVIRUS SURVEILLANCE
- FOREIGN REPORTS



U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
Communicable Disease Center
Clarence A. Smith, Chief
Epidemiology Branch
Alexander D. Langmuir, Chief

Surveillance Section
D. A. Henderson, Chief
Atlanta 22, Georgia

SPECIAL NOTE

This report is intended for the information and administrative use of those involved in the investigation and control of poliomyelitis and polio-like diseases. It presents a summary of provisional information reported to CDC from State Health Departments, Virology Laboratories, Epidemic Intelligence Service Officers, and other pertinent sources. Since much of the information is preliminary in nature, confirmation and final interpretation should be determined in consultation with the original investigators prior to any further use of the material.

SUMMARY

Reports of poliomyelitis remained at the unseasonable low noted last week. The 36th week of the year ending September 9, brought news of 62 cases.

Cases continue to occur in the Syracuse, New York area. Pennsylvania reported seven cases but noted no concentration.

Recent Coxsackie isolations made in epidemics of febrile disease and aseptic meningitis are reported in Section 5.

Increased poliomyelitis has been reported from several neighboring countries to the South. These figures will be presented in Section 6.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

The reported total of cases of poliomyelitis for the 36th week remained at the level reported last week. A total of 62 cases, 37 paralytic, was included in telegraphic reports. The previous week's total was 60 cases with 36 paralytic.

Case totals cumulated weekly through the 36th week for this year and the preceding four years are shown below. Paralytic cases reported this year represent only 38% of similar cases in 1960, the low of recent years.

Polio (Cumulated Weekly) through 36th Week for Past Five Years

	1961	1960	1959	1958	1957
Paralytic	454	1200	3122	1262	1305
Total	685	1735	4956	2597	4162

Only two States, New York and Pennsylvania, reported over three cases. Aside from continuing cases in upper New York State, there have been no epidemic concentrations noted.

2. REPORTS

A. New York State

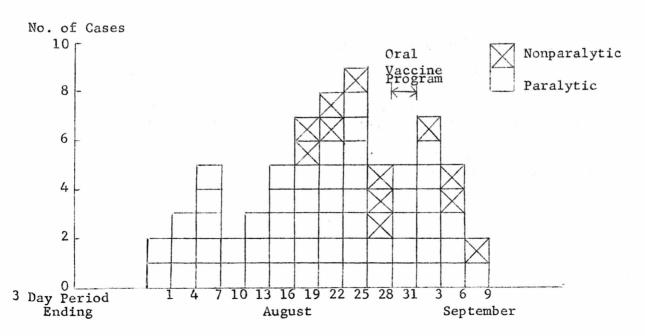
Dr. Robert M. Albrecht, Director, Office of Epidemiology, New York State Department of Health, reports that 15 additional paralytic cases of poliomyelitis have been recognized during the past week in Onondaga, Madison, and Oneida Counties. Through Wednesday, September 13, 60 cases of paralytic poliomyelitis have occurred in this tri-county area. Of these cases, 34 have occurred in Onondaga County (22 in Syracuse), 15 in Madison County, and 11 in Oneida County. Type I poliovirus has been isolated from seven of these cases.

The 60 paralytic cases are shown below by week of onset and by county. Cases continue to occur in Onondaga County while the last case to occur in either Madison or Oneida County was on September 1.

County	Before July	7/29	8/5	8/12	8/19	8/26	9/2	9/9
Onondaga	1	1	2	1	4	10	11	4
Madison	1	0	4	3	5	2	0	0
Oneida	1	_0_	2	2	2	3	1	0
TOTAL	3	1	8	6	11	15	12	4

The tri-county area was the scene of an intensive immunization program from August 29-31. Over 400,000 doses of type I oral poliovaccine were fed during this period. The total population of the three counties is 742,000. The epidemic curve shown below depicts the outbreak by date of onset in three-day intervals. The three days in which the oral vaccine was administered are marked. The histogram includes the 56 paralytic and 12 nonparalytic cases occurring since August 1.

POLIOMYELITIS BY DATE OF ONSET ONONDAGA-MADISON-ONEIDA COUNTIES, NEW YORK



Fifteen paralytic cases have had onset since the oral immunization program began. All but one of the 15 cases are from Onondaga County. Of the 15 cases, 11 received oral vaccine as shown below:

	Interval	in	Days	Bet	tween	Oral	Va	ccine	and	Onset	of	Symptoms
No Vaccine	Same Day	<u> </u>	1	2	3	4	5	6	7			
4	2		0	2	3	1	1	1	1			

In addition to the 60 paralytic cases, there are six nonparalytic cases in Onondaga County, five in Oneida County and one in Madison County. There have been two deaths. The age and vaccination history of the 60 paralytic cases are shown in the following table:

Age	Vaccination History												
Group		0	1	2	3	4+	TOTAL	%					
0-4		11	2	4	8	4	29	48.3					
5-9		1	0	3	4	3	11	18.3					
10-19		2	0	2	1	2	7	11.7					
20-29		3	1	0	2	1	7	11.7					
30-39		5	0	0	1_	0	6	10.0					
TOTAL		22	3	9	16	10	60	100.0					

B. Pennsylvania

The seven cases of poliomyelitis reported this week include four widely scattered paralytic cases. According to Dr. I. F. Gratch, Epidemiologist, Pennsylvania State Department of Health, one of the paralytic cases was an unvaccinated 41 year-old white female from Dauphin County who had onset of paralytic disease on August 18 and died on August 27. This patient had not participated in the mass immunization program carried out earlier this year in Dauphin County. The corrected Pennsylvania State total now stands at 23 cases.

3. 1961 POLIOMYELITIS CASES REPORTED TO PSU

Through September 9, there have been 474 cases of poliomyelitis with onset in 1961 submitted on individual case forms to the Poliomyelitis Surveillance Unit. Of these 474 cases, 366 are paralytic, 94 nonparalytic, and 14 unspecified as to paralytic status.

These cases are presented in Table 3 by paralytic status, age group and vaccination history.

TABLE 3
POLIOMYELITIS CASES BY PARALYTIC STATUS, AGE GROUP
AND VACCINATION STATUS REPORTED ON PSU FORMS
(Through September 9, 1961)

		1.22		Par	calytic		
Age		. 4 1		Doses	of Vac	cine	The state of the state of
Group	0	1	2	3	4+	Unk	Total
0-4	94	15	15	15	15	7	161
5-9	25	6	5	17	18	3	74
10-14	16	1	4	11	13	2	47
15-19	6	0	5	4	3	1	19
20-29	19	0	.3	4	2	1	29
30-39	15	3	1	0	2	2	23
40+	11	0	0	0	0	2	13
TOTAL	186	25	33	51	53	18	366
PERCENT				,		· .	
DOSES	53.4	7.2	9.5	14.7	15.2	=	100.0

				Nonp	aralyti	.c	<u> vog til melev</u> fet	T. + 16 LO 80	
Age			I	oses	of Vaco	ine			
Group	0	1	2	3	4+	Unk	Total	the great rod.	
			1				he nodrie		
0-4	11	0	5	6	1	1 ,	24	anyonal ca	
5-9	4	0	1	7	7 ,	3	22		34
10-14	0	2	3	5	6	1	17		
15-19	1	0	2	2	3	0	8	*	
20 - 29	5	0	1	5	2	2	15		
30-39	4	0	0	2	0	0, 1	6	No. 1.157	
40+	10	0	0	0	2	0	2_		
TOTAL	25	2	12	27	21	7	94	e ratio	
PERCENT		., 4						nini ase	$T^{\frac{1}{2}}$
DOSES	28.7	2.3	13	.8 31	.0 24.1	-	100.0	od aaistuu	

4. ROUTINE POLIOMYELITIS SURVEILLANCE

A. Cases with Onset within 30 Days of Vaccination

No additional cases of poliomyelitis within thirty days of vaccination have been reported to the Poliomyelitis Surveillance Unit during the past week ending September 9. Thus, the 1961 total remains at nine cases, of which seven are paralytic (one correlated).

5. ENTEROVIRUS SURVEILLANCE

Notification of a number of Coxsackie B-4 isolates in New Haven and surrounding areas has been received from Dr. G. D. Hsiung, Director, Virus Diagnostic Laboratory, Yale University School of Medicine. Fourteen isolates have been obtained since May. The clinical features of those infected, varied from inapparent infection in one family contact to bronchiolitis, pneumonia, pericarditis, myalgia, aseptic meningitis, and encephalitis in hospitalized patients. One patient exhibited herpangina and gastroenteritis. The majority of the 13 patients hospitalized since May were infants and preschool age children. Aside from a cluster of four cases in one family, there is no evidence of concentrations within New Haven.

An outbreak of aseptic meningitis in North Dakota is also under investigation. Mr. Kenneth Mosser, Director of Preventable Disease Fivision, North Dakota State Department of Health, reports that four foci have been recognized: Bismarck (three cases), Garrison (12 cases), Minot (six cases), and Dickenson (four cases). The clinical features of these 25 cases included fever, malaise, nausea, headache, myalgia, and stiff neck. No exanthem or pleurodynia has been evident, but several instances of minor febrile illness in family contacts have been noted. The majority of cases occurred in preschool and school age children. Laboratory studies carried out by the CDC Kansas City Virology Laboratory, under the direction of Dr. Tom Chin, have yielded Coxsackie B-5 isolates in several cases. This same Coxsackie type has been obtained from several cases of aseptic meningitis in Fort Dodge, Iowa, and from one case of pleurodynia in Des Moines, Iowa.

6. POLIO IN THE HEMISPHERE

With the marked decrease in reported poliomyelitis in the United States, it is of interest to note poliomyelitis trends for various other countries in this Hemisphere which are north of the equator.

Reported Poliomyelitis Cumulated Through the 34th Week

	1961	1960
Colombia	108	99
Costa Rica	6*	32
Cuba	215	102
El Salvador	3	7
Guatemala	131	28*
Honduras	23	15
Mexico	245	414
Nicaragua	13	189
Panama	20	20
Venezuela	97	225

^{*} Partial

Five of the ten countries show a lower incidence this year, while two others show the same oronly a minimal increase in reported cases. Cuba, Guatemala and Honduras show a higher incidence during the first 34 weeks.

Total cases reported during the past four years from five of these countries are presented below as reported in the World Health Organization's Epidemiological and Vital Statistics Report, Vol. 14, Number 3, Pages 92 and 93, with the 1960 totals for Cuba and Mexico kindly supplied by Dr. Puffer of the Pan American Sanitary Bureau. Experience during recent years in these countries shows a biennial increase in reported cases, with the exception of Cuba, which shows a steady increase in cases reported since 1957.

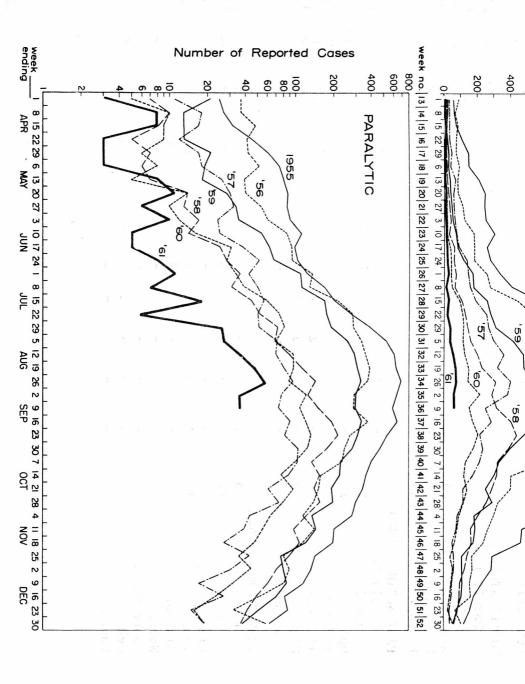
		TOTAL	CASES	
	1960	1959	1958	1957
Cuba Costa Rica Guatemala Mexico Nicaragua	328 66 78 1087 211	288 41 155 1835 16	103 63 85 904 255	97 51 107 1562 68

(This surveillance report was prepared by the Poliomyelitis and Poliolike Diseases Surveillance Unit, Michael J. Regan, M.D., Chief, James A. Bryan, II, M.D., and Mr. Leo Morris, Statistician, with the assistance of Statistics Section, CDC.)

ന്ധന്തത്തെ വേശത്തിലെ കുകയുന്നത് വ്യാഹത്തെ വ്യാർദ്ദ് ആപം തുന്നു കൂടുക്കുന്നതു. അ ജീവല് നിന്നത് വഴും നടപ്പുന്ന അ മുമ്മിയിൽ വേദ്യേഷണം അവിധാനത്തില് പുരുവുന്നതു. പുരുവുന്നതു. പുരുവുന്നത്ത് വിധാനത സ്ത്രീത്തില് നിന്നുക്ക് വ്യാന്ത്രത്ത്തെ സ്ത്രീക്ക് സ്ക്രോഗ്രണ്ട് വിധാനത്ത്ത് വരുന്നത്ത്ത് വിധാനത്ത്ത്ത് സ്ത്രീക

കളെ നെ വിവരു അവര് നെ വളി വരു വരു വരു വരു വരു ക്ക് വരു വിവരു പ്രത്യേഷ വരു വരു ത്രെയ്ക്ക് വരു വരു വരു വരു വരു വര പ്രത്യായ വരു പ്രത്യായ പ്രത്യം പ്രത്യായ പ്രത്യം പ്രത്യായ പ്രത്യായ പ്രത്യ

(1965) Program Color of the Col



1955

2,000

2,200

2,400

Number of

56

Reported

1,400

1,600

CURRENT U.S. POLIO INCIDENCE

FIGURE 1

COMPARED WITH YEARS 1955-1960, April-December, by week

PROVISIONAL DATA SUPPLIED BY NATIONAL OFFICE OF VITAL STATISTICS AND COMMUNICABLE DISEASE CENTER

Table 1
TREND OF 1961 POLIOMYELITIS INCIDENCE

State	Cumula-		Cases				DC	Six	Compa	rable	Six
and	tive			Week				Week		Total	S 1n
Region	1961	8-5	8-12 8	3-19 8	3-26	9-2	9-9	Total	1960	1959	1958
UNITED STATES											-11 2
Paralytic	454	27	36	48	58	36	37	242	591	1780	712 579
Nonparalytic		7	16	13	9	18	16	.79	200	896	
Unspecified	81	2	2	8	7	6	9	34	107	240	214
Total	685	36	54	6 9	74	60	62	355	898	2916	1505
NEW ENGLAND											
Paralytic	12	-	1	1	1	3	2	8	46	99	11
Total	15	_	1	3	1	3	3	11	6 5	150	36
Maine	1	-	-	_	-	1	-	1	13	6	7
New Hampshire	1	-	-	1	-	-	-	1	-	3	4
Vermont	2	-	-	1	-	-	-	1	3	1	1
Massachusetts	7	-	-	1	1	2	1	5	15	67	12
Rhode Island	-	_	-	_	_	_	-	-	20	1	1
Connecticut	4	-	1	-	_	-	2	3	14	72	18
MIDDLE ATLANTIC											
Paralytic	101	6	7	7	2 7	14	15	76	112	133	129
Total	1.34	6	7	12	33	25	23	106	144	248	229
New York	85	1	6	9	24	20	14	74	74	139	88
New Jersey	25	4	1	2	3	3	2	15	35	55	108
Pennsylvania	24	1	-	1	6	2	7	17	3 5	54	33
EAST NORTH CENT	RAL										- 4.0
Paralytic	41	-	3	2	8	6	3	22	105	193	212
Total	73	-	7	5	11	10	8	41	180	496	554
Ohio	19	-	1	-	4	1	-	6	44	111	92
Indiana	9	-	-	-	1	2	2	5	44	57	41 71
Illinois	19	· _	3	2	2	1	2	10	61	118	
Michigan	14	-	1	3	3	2	2	11	20	190	331 19
Wisconsin	12	-	2	-	1	4	2	9	11	20	13
WEST NORTH CENTI	RAI.										- 0
Paralytic	19	1	1	2	3	1	2	10	27	301	52
Total	41	2	3	4	3	5	4	21	51	592	109
Minnesota	5	_	-	_	1	_	1	2	16	92	8
Iowa	13	1	2	4	ī	1	2	11	6	177	27
Missouri	10	-	_	-	_	2	_	2	6	173	42
North Dakota	1	_	1	_	-	_	_	1	7	5	21
South Dakota	ī	~	-	-	_	~	1	1	1	9	1
Nebraska	4	1	-	-	1	_	_	2	8	48	2 8
Kansas	7	_	_	_	_	2	_	2	7	88	D

Table 1 (Continued)

State	Cumula-		ses Rep			C	CIM PORTS	Six		arable	
and Region	tive 1961	8/5	For Wee		ing 8/26	9/2	9/9	Week		s Tota 1959	
			0/12	0/1/	0/20	// _		10001			-
SOUTH ATLANTIC Paralytic Total	9 7 129	9 10	14 17	21 23	8 11	- 3	6 8	58 7 2	107 144	351 442	100 196
Delaware	2	-		_	_	_	•		-	1	9
Maryland D. C.	22 1	2 1	3	6	4	-	1	16 1	22	11 5	8
Virginia West Virginia North Carolina South Carolina Georgia Florida	8 17 11 12 27 29	1 - 3 2 1	4 4 1 3 2	1 2 3 9	3 - 1 2	3	3 1 3	7 10 4 8 10 16	9 14 36 48 7 8	128 68 95 25 72 37	45 52 31 2 15 34
EAST SOUTH CENTRAI Paralytic Total Kentucky Tennessee Alabama Mississippi	32 54 20 13 8 13	2 3 - 2 - 1	-	3 4 2 1 1	1 2 1 -	9 9 1 - 2 6	1 3 - 3	16 21 2 7 3	24 77 48 16 3	230 327 20 162 113 32	32 97 4 40 16 37
WEST SOUTH CENTRAL Paralytic Total Arkansas Louisiana Oklahoma Texas	54 102 11 33 3 55	151	14 10 7 - 3	8 12 3 1 5	58251	2 1 2 1	3 6 1 2 NR 3	23 45 9 18 1	36 64 9 5 3	228 351 99 39 63 150	108 165 3 18 18
MOUNTAIN Paralytic Total Montana Idaho Wyoming Colorado New Mexico Arizona Utah Nevada	23 40 3 13 -6 3 7 8	3 5 1 2 2 2	1 3 - 2 - 1	2 2 - 1 - 1	1		1 - 1	7 13 1 6 - 3 - 2 1	5 23 1 14 3 2 1	33 55 3 - 8 11 27 4	15 41 14 2 4 6 8 2
PACIFIC Paralytic Total Washington Oregon California Alaska Hawaii TERRITORY Puerto Rico	75 97 19 12 64 - 2	55 - 5	56222	2 1 3	14 14 2 - 2	1 1	55113	22 25 6 4 15	129 150 10 6 132 - 2	212 255 66 70 113 6	53 78 5 14 42 17

	* 1									
	,									1.349
					4,4					
	1.5									
	1.0			**						
							en.			
		,								
										9
										្រូវ គ្រូវិទា
A										
							8			
									5.5	
										() o i
			-44				en:			AMO
										oxid
										200 201 201 201 201 201 201 201 201 201
						8000		•		
							M. sale			
							ģ			
	X 11							**		
				- 4		~	Symp			
				12-16				1718		